

ABSTRACT OF THE DISCLOSURE

A piezoelectric fuel injection system and a method of controlling same, the system including a piezoelectric fuel injector having a piezoelectric element, a power source adapted to provide power to the piezoelectric element to actuate the piezoelectric fuel injector, and a controller adapted to cyclically modulate power provided to the piezoelectric element by the power source during at least a portion of the injection event. The controller cyclically modulates the power between a predetermined first voltage and a predetermined second voltage that is less than the first voltage to control the rate of fuel injected by the piezoelectric fuel injector during the portion of the injection.